



*Turning Goals Into Reality 2004*  
*Awards Program*

6TH ANNUAL TGIR AWARDS CEREMONY

## *Message from the Associate Administrator*

OVER THE PAST 45 YEARS, NASA'S RESEARCH AND TECHNOLOGY DEVELOPMENTS HAVE TRANSFORMED OUR SOCIETY BY CONTRIBUTING TO SAFE AND AFFORDABLE AIR TRANSPORTATION, GROWTH IN CRITICAL NATIONAL INDUSTRIES, ENHANCED NATIONAL SECURITY, AND SCIENTIFIC EXPLORATION AND DISCOVERY.

THROUGH THE TGIR AWARDS WE ARE CELEBRATING THE YEAR'S MOST SIGNIFICANT ACCOMPLISHMENTS THAT ADD TO THE NASA LEGACY. TODAY WE HONOR THESE TEAMS OF WOMEN AND MEN, ALONG WITH THEIR INDUSTRY AND UNIVERSITY PARTNERS, FOR THEIR CONTRIBUTIONS TO THE ADVANCEMENT OF AVIATION AND SPACE TECHNOLOGY.

NASA IS TRANSFORMING. THE TECHNOLOGIES YOU SEE RECOGNIZED TODAY STRENGTHEN OUR CAPABILITY TO ACHIEVE THE NEW VISION FOR EXPLORATION.

TURNING GOALS INTO REALITY IS PUTTING AEROSPACE TECHNOLOGY INTO ACTION TO IMPROVE THE QUALITY OF LIFE, ENABLE EXPLORATION AND DISCOVERY, AND EXTEND THE BENEFITS OF OUR INNOVATION THROUGHOUT SOCIETY.



J. VICTOR LEBACQZ, PH.D.

ASSOCIATE ADMINISTRATOR FOR AERONAUTICS

## **TURNING GOALS INTO REALITY AGENDA**

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION □ HEADQUARTERS AUDITORIUM  
300 E. STREET, SW □ WASHINGTON, DC 20546

**JULY 14, 2004**

**3:00 P.M. AWARDS PROGRAM**

### **WELCOME**

J. VICTOR LEBACQZ, ASSOCIATE ADMINISTRATOR FOR AERONAUTICS  
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

### **REMARKS**

THE HONORABLE SEAN O'KEEFE, ADMINISTRATOR  
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

**AWARDS PRESENTATION**

**5:15 P.M. BUS DEPARTS FOR UDVAR-HAZY CENTER**

## **TURNING GOALS INTO REALITY AGENDA**

NATIONAL AIR AND SPACE MUSEUM, STEVEN F. UDVAR-HAZY CENTER

**6:30 P.M. AWARD WINNER PHOTOGRAPHS**

**7:00 P.M. OPENING RECEPTION**

**8:00 P.M. AWARDS PROGRAM**

### **WELCOME**

GENERAL JOHN “JACK” DAILEY (USMC RET.)  
DIRECTOR NATIONAL AIR AND SPACE MUSEUM

### **REMARKS**

DR. J. VICTOR LEBACQZ  
ASSOCIATE ADMINISTRATOR FOR AERONAUTICS

THE HONORABLE SEAN O’KEEFE  
ADMINISTRATOR

## **AWARDS PRESENTATION**

THE AA'S CHOICE AWARD

THE ADMINISTRATOR'S AWARD

## **PRESENTATION BY STUDENTS IN NASA'S SCIENCE, ENGINEERING, MATHEMATICS, AND AEROSPACE ACADEMY (SEMAA)**

**"OUR GOALS MADE REAL"**

MS. LEAH PIRRUNG, SHAKER HEIGHTS MIDDLE SCHOOL, 7TH GRADE

MR. STEPHON LYNCH, MAPLE HEIGHTS MIDDLE SCHOOL, 8TH GRADE

## **KEYNOTE PRESENTATION**

**"MAKING DREAMS FLY"**

BILL "FATHER GOOSE" LISHMAN

**9:15 P.M. DESSERT RECEPTION**

**10:00 P.M. TGIR AWARDS PROGRAM CONCLUSION, DEPART MUSEUM**

**10:00 P.M. BUSES DEPART FOR NASA HEADQUARTERS**

AERONAUTICS TECHNOLOGY THEME AWARDS

*Objective: Aviation Safety*

**JET ENGINE CONTAINMENT CONCEPTS AND BLADE-OUT SIMULATION TEAM**

GLENN RESEARCH CENTER □ FEDERAL AVIATION ADMINISTRATION □ ROLLS-ROYCE □  
THE BOEING COMPANY □ GENERAL ELECTRIC COMPANY □ HONEYWELL □ A&P TECHNOLOGY  
□ WILLIAMS INTERNATIONAL □ NORTH COAST COMPOSITES □ NORTH COAST TOOL & MOLD □  
CINCINNATI TESTING LABORATORIES □ MSC SOFTWARE □ OHIO AEROSPACE INSTITUTE □  
OHIO STATE UNIVERSITY □ UNIVERSITY OF AKRON

## *Objective: Protect the Environment*

### COATED CERAMIC MATRIX COMPOSITE COMPONENTS TEAM

GLENN RESEARCH CENTER □ U.S. ARMY RESEARCH LAB □ DEPARTMENT OF ENERGY □  
GE AIRCRAFT ENGINES □ PRATT & WHITNEY □ UNITED TECHNOLOGIES RESEARCH LAB □  
SOLAR TURBINES, INC. □ GE POWER SYSTEMS COMPOSITES □ COI CERAMICS, INC. □  
GOODRICH CORPORATION □ OHIO AEROSPACE INSTITUTE □ THE UNIVERSITY OF TOLEDO □  
CLEVELAND STATE UNIVERSITY □ QSS GROUP, INC.

*Objective: Increase Capacity and Mobility*

**SURFACE MANAGEMENT SYSTEM DEVELOPMENT TEAM**

AMES RESEARCH CENTER □ RAYTHEON COMPANY, NETWORK CENTRIC SYSTEMS □ FEDEX □  
METRON AVIATION INC. □ NORTHWEST AIRLINES □ THE TITAN CORPORATION □  
ADVANCED AIR TRANSPORTATION TECHNOLOGIES □ FEDERAL AVIATION ADMINISTRATION □  
BOOZ ALLEN HAMILTON □ SAN JOSE STATE UNIVERSITY FOUNDATION

## *Objective: Partnerships for National Security*

### SHAPED SONIC BOOM DEMONSTRATION TEAM

LANGLEY RESEARCH CENTER □ DRYDEN FLIGHT RESEARCH CENTER □ GLENN RESEARCH CENTER □ NASA HEADQUARTERS □ LOCKHEED MARTIN AERONAUTICS COMPANY □ DEFENSE ADVANCED RESEARCH PROJECTS AGENCY (DARPA) □ THE BOEING COMPANY □ U.S. AIR FORCE RESEARCH LABORATORY □ NORTHROP GRUMMAN □ GENERAL ELECTRIC □ EAGLE AERONAUTICS, INC. □ GULFSTREAM AEROSPACE □ NAVAL AIR SYSTEMS COMMAND □ RAYTHEON AIRCRAFT □ WYLE LABORATORIES □ INSTITUTE FOR DEFENSE ANALYSIS □ U.S. AIR FORCE AERONAUTICAL SYSTEMS CENTER

## *Objective: Partnerships for National Security*

### **ABRUPT WING STALL (AWS) TEAM**

LANGLEY RESEARCH CENTER □ AMES RESEARCH CENTER □ OFFICE OF NAVAL RESEARCH □  
NAVAL AIR SYSTEMS COMMAND □ U.S. AIR FORCE RESEARCH LABORATORY □  
THE BOEING COMPANY □ LOCKHEED MARTIN AERONAUTICS □ BALL AEROSPACE □  
U.S. AIR FORCE ACADEMY

*Objective: Partnerships for National Security*

ACTIVE AEROELASTIC WING (AAW) PROGRAM

DRYDEN FLIGHT RESEARCH CENTER □ LANGLEY RESEARCH CENTER □ THE BOEING COMPANY

□ U.S. AIR FORCE RESEARCH LABORATORY

## *Objective: Explore Revolutionary Aeronautics Concepts*

### **ERAST UAV TEAM**

DRYDEN FLIGHT RESEARCH CENTER □ AMES RESEARCH CENTER □ GLENN RESEARCH CENTER  
□ LANGLEY RESEARCH CENTER □ NASA HEADQUARTERS □ OLD DOMINION UNIVERSITY □  
NEW VISTAS INTERNATIONAL □ HIGH TECHNOLOGY SOLUTIONS, KAUAI OFFICE □  
AEROVIRONMENT, INC. □ MODERN TECHNOLOGY SOLUTIONS, INC. □ LONGITUDE 122 WEST  
□ KAUAI COMMUNITY COLLEGE □ GENERAL ATOMICS AERONAUTICAL SYSTEMS, INC. □  
ADVANCED SOARING CONCEPTS □ THERMO MECHANICAL SYSTEMS, INC. □ NIIHAU RANCH □  
HYPER SPECTRAL SCIENCES □ MORGAN AIRCRAFT & CONSULTING □ SCALED COMPOSITES □  
KAUAI AIRBORNE SCIENCES □ PACIFIC MISSILE RANGE FACILITY, U.S. NAVY □ AURORA  
FLIGHT SCIENCES □ ASSOCIATION OF UNMANNED VEHICLE SYSTEMS INTERNATIONAL □  
TECHNICAL ANALYSIS & APPLICATIONS CENTER/NEW MEXICO STATE UNIVERSITY □  
AMERICAN TECHNOLOGY ALLIANCES, INC.

SPACE LAUNCH INITIATIVE THEME AWARDS

*Objective: Assured International Space Station Access*

INTEGRATED POWERHEAD DEMONSTRATOR TECHNICAL STAFF

MARSHALL SPACE FLIGHT CENTER □ STENNIS SPACE CENTER □ GENCORP AEROJET □  
AIR FORCE RESEARCH LABORATORY □ BOEING-ROCKETDYNE PROPULSION AND POWER

*Objective: Mission Safety and Reliability*

COOLED CERAMIC MATRIX COMPOSITE PROPULSION STRUCTURES TEAM

GLENN RESEARCH CENTER □ LANGLEY RESEARCH CENTER □ MARSHALL SPACE FLIGHT  
CENTER □ MODERN MACHINE & TOOLS □ ZIN TECHNOLOGIES □ PRATT & WHITNEY □  
UNITED TECHNOLOGIES RESEARCH CENTER □ QSS GROUP

MISSION SCIENCE MEASUREMENT TECHNOLOGY THEME AWARDS

*Objective: Mission Risk Analysis*

**NGLT SYSTEM ANALYSIS PROJECT (SAP) TEAM**

LANGLEY RESEARCH CENTER □ AMES RESEARCH CENTER □ GLENN RESEARCH CENTER □  
MARSHALL SPACE FLIGHT CENTER □ JOHNSON SPACE CENTER □ KENNEDY SPACE CENTER  
□ STENNIS SPACE CENTER □ ANDREWS SPACE, INC. □ INTERNATIONAL SPACE SYSTEMS, INC.  
□ LOCKHEED MARTIN □ MCKINNEY ASSOCIATES □ ELORET □ NORTHROP GRUMMAN □  
SCIENCE APPLICATIONS INTERNATIONAL CORPORATION (SAIC) □ VITECH CORPORATION □  
SPACE PROPULSION SYNERGY TEAM □ THE BOEING COMPANY □ JACOBS SVERDRUP □  
HERNANDEZ ENGINEERING, INC. □ GORMLEY & ASSOCIATES □ U.S. AIR FORCE RESEARCH LAB  
□ UNIVERSITY OF ALABAMA—HUNTSVILLE

*Objective: Science and Engineering-Driven Architectures and Technologies*

**GROUND TRUTHING TEAM**

GLENN RESEARCH CENTER □ AMES RESEARCH CENTER □ GODDARD SPACE FLIGHT CENTER □  
UNIVERSITY OF CINCINNATI □ BOWLING GREEN STATE UNIVERSITY □ RSIS, INC. □ VERIZON □  
USRA-RIACS □ AMTI □ UNITED STATES GEOLOGICAL SOCIETY □ AKIMA

INNOVATIVE TECHNOLOGY TRANSFER PARTNERSHIP THEME AWARDS

*Objective: Extending Benefits to Society*

**HYBRID ICE PROTECTION SYSTEM TEAM**

GLENN RESEARCH CENTER □ QSS GROUP INC. □ INDYNE INC. □ COX AND COMPANY  
□ U.S. ARMY AVIATION SYSTEMS COMMAND □ RAYTHEON AIRCRAFT COMPANY

*Objective: New Sources of Technology for NASA*

COMPOSITE CRYOGENIC TANK TEAM

LANGLEY RESEARCH CENTER □ MARSHALL SPACE FLIGHT CENTER □ FOSTER-MILLER INC.  
□ NORTHROP GRUMMAN INTEGRATED SYSTEMS □ ATK

AGENCY EDUCATION AND OUTREACH GOAL AWARDS

*Enterprise Contributions to Education and Outreach—Group Award*

**NASA GLENN EDUCATION AND OUTREACH INITIATIVES TEAM**

NASA GLENN RESEARCH CENTER □ INDYNE, INC. □ NCI INFORMATION SYSTEMS, INC. □  
N&R ENGINEERING AND MANAGEMENT SERVICES □ INTEGRAL SYSTEMS, INC. □  
QSS GROUP, INC. □ MYRIAD DESIGN WORKS □ RSIS □ OKLAHOMA STATE UNIVERSITY □  
FORD MOTOR COMPANY □ UNIVERSITY OF TOLEDO □ FAIRVIEW HIGH SCHOOL

*Enterprise Contributions to Education and Outreach—Project Award*

EDGARVILLE AIRPORT-TAKE OFF TO THE FUTURE OF AIR TRAVEL TEAM

AMES RESEARCH CENTER □ RAYTHEON TECHNICAL SERVICES □ PLANNERS COLLABORATIVE

□ QSS GROUP INC. □ NASA AIRSPACE SYSTEMS PROGRAM

□ *AA's Choice Award* □

INVESTIGATION ORGANIZER TEAM

SUPPORTING THE COLUMBIA ACCIDENT INVESTIGATION BOARD

AMES RESEARCH CENTER □ SCIENCE APPLICATIONS INTERNATIONAL CORPORATION (SAIC)

□ DANIEL, MANN, JOHNSON & MENDENHALL □ COMPUTER SCIENCES CORPORATION □

QSS GROUP, INC.

□ *Administrator's Award* □

ADVANCED INFORMATION TECHNOLOGY INFUSION TEAM  
FOR THE MARS EXPLORATION ROVER 2003 MISSION

AMES RESEARCH CENTER □ JET PROPULSION LABORATORY □ QSS GROUP, INC. □  
RESEARCH INSTITUTE FOR ADVANCED COMPUTER SCIENCE □ ALERTNESS SOLUTIONS □  
SCIENCE APPLICATIONS INTERNATIONAL CORPORATION (SAIC) □ DEANZA COLLEGE □  
COMPUTER SCIENCES CORPORATION □ SAN JOSE STATE UNIVERSITY □ RAYTHEON □  
KESTREL INSTITUTE □ OFFICE OF NAVAL RESEARCH □ WRIGHT STATE UNIVERSITY

